

Amendments to the Claims:

Please amend the claims as indicated.

1. (Currently amended) An apparatus for recording block address information, the apparatus comprising:

a processing node configured to operate on a network and further configured to record block address information, the processing node comprising:

a response module configured to receive a tracking command in response to a backup component not being online, wherein the backup component provides a gateway to a secondary volume;

an extraction module configured to extract block address information from the tracking command in response to the backup component not being online, wherein the block address information comprises time and date information;

a log module configured to record the block address information on a tracking log and transfer the block address information to a location on the network in response to the backup component not being online; and

the response module further configured to extract block addresses from the tracking log, organize a block address list from the extracted block addresses, read blocks of the block address list from a primary volume, and write the memory blocks to the secondary volume when the backup component comes online.

2. (Previously presented) The apparatus of claim 1, wherein the tracking log comprises at least one bitmap representing block allocations on the primary volume.

3. (Original) The apparatus of claim 1, wherein the block address information further comprises metadata.
4. (Canceled)
5. (Original) The apparatus of claim 1, wherein the log module is further configured to read a tracking log.
6. (Original) The apparatus of claim 5, wherein the log module is further configured to transfer information from the tracking log to the network.
7. (Canceled)

8. (Currently amended) A method for logging block address information, the method comprising:

receiving a tracking command in response to a backup component not being online, wherein the backup component provides a gateway to a secondary volume;

extracting block address information contained in a tracking command in response to the backup component not being online, wherein the block address information comprises time and date information;

recording the block address information in a tracking log in response to the backup component not being online;

transferring the block address information to a location on the network in response to the backup component not being online;

extracting block addresses from the tracking log;

organizing a block address list from the extracted block addresses;

reading blocks of the block address list from a primary volume; and

writing the memory blocks to the secondary volume when the backup component comes online.

9. (Previously presented) The method of claim 8, wherein recording the block address information comprises writing at least one bitmap representing block allocations on the primary volume.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently amended) An apparatus for logging block address information, the apparatus comprising:

means for receiving a tracking command in response to a backup component not being online, wherein the backup component provides a gateway to a secondary volume;

means for extracting block address information from a tracking command in response to the backup component not being online, wherein the block address information comprises time and date information;

means for recording the block address information on a tracking log in response to the backup component not being online;

means for transferring the block address information from the tracking log to a location on the network in response to the backup component not being online;

means for extracting block addresses from the tracking log;

means for organizing a block address list from the extracted block addresses;

means for reading blocks of the block address list from a primary volume; and

means for writing the memory blocks to the secondary volume when the backup component comes online.

14. (Canceled)

15. (Canceled)

16. (Currently amended) A system for shared data mirroring, the system comprising:

a network comprising at least one host and a plurality of storage devices;

at least one backup component;

a data mirror comprising at least one primary volume and at least one secondary volume, wherein the at least one backup component is configured to provide a gateway to the at least one secondary volume; and

a processing node on the network, the processing node configured to record block address information, the processing node comprising:

- a response module configured to receive a tracking command in response to a backup component not being online and respond with status;
- an extraction module configured to extract block address information from the tracking command in response to the backup component not being online, wherein the block address information comprises time and date information;
- a log module configured to record the block address information on a tracking log and transfer log and transfer the block address information to a location on the network tracking log in response to the backup component not being online; and
- the response module further configured to extract block addresses from the tracking log, organize a block address list from the extracted block addresses, read blocks of the block address list from the at least one primary volume, and write the memory blocks to the at least one secondary volume when the backup component comes online.

17. (Original) The system of claim 16 wherein the host is configured to issue forked writes.

18. (Currently amended) A computer readable storage medium embodying one or more instructions executable by a processor to perform a method for logging block address information, the method comprising:

receiving a tracking command in response to a backup component not being online,
wherein the backup component provides a gateway to a secondary volume;

extracting block address information from a tracking command in response to the backup component not being online, wherein the block address information comprises time and date information;

writing the block address information to a tracking log in response to the backup component not being online;

transferring the block address information from the tracking log in response to the backup component not being online;

extracting block addresses from the tracking log;

organizing a block address list from the extracted block addresses;

reading blocks of the block address list from a primary volume; and

writing the memory blocks to the secondary volume when the backup component comes online.

19. (Previously presented) The computer readable storage medium of claim 18, wherein the recording of block address information comprises writing at least one bitmap representing block allocations on the primary volume.

20. (Canceled)

21. (Canceled)